

ABSTRACT OF THE DISCLOSURE

For achieving elimination of unfairness between ports,  
reserved output port information transferred between respective  
5 modules is input to switch out of the module to vary destination  
of output. The module and the switch operate in synchronism  
with the frame for which the connection grant process of a  
plurality of time slot is performed to vary connection topology  
so that all connection topology appear. By variation of  
10 connection topology, variation combination of adjacent port  
appear to shuffle preference for the input port which is otherwise  
held fixed for resolving unfairness relating to reservation  
chance of the input port.